DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W21 Explosion Proof NEMA Product code: 14371273 Premium Efficiency Three-Phase : 182/4T Locked rotor time Frame : 50s (cold) 28s (hot) Output : 3 HP (2.2 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature : 1000 m.a.s.l. Rated voltage : 575 V Altitude Rated current : 3.21 A Protection degree : IP55 : IC411 - TEFC L. R. Amperes : 25.7 A Cooling method **LRC** : 8.0x(Code K) Mounting : F-1 : Both (CW and CCW) No load current : 1.68 A Rotation¹ Rated speed : 1760 rpm Noise level² : 56.0 dB(A) Slip : 2.22 % Starting method : Direct On Line Rated torque : 1.24 kgfm Approx. weight³ : 53.9 kg Locked rotor torque : 250 % Breakdown torque : 320 % : F Insulation class Service factor : 1.15 Moment of inertia (J) : 0.0117 kgm² Design : B 25% 50% 100% Output 75% Foundation loads Efficiency (%) 86.2 87.3 88.5 89.5 Max. traction : 56 kgf : 110 kgf Power Factor 0.35 0.59 0.71 0.77 Max. compression Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P1 (0,9;1,0) P5 (0,5;0,5) P6 (0,5;0,25) P7 (0,25;0,25) 11.0 8.7 8.3 6.4 4.2 3.2 2.3 Drive end Non drive end 6307 2RS Bearing type 6206 2RS Sealing Oil Seal Lip Seal Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM Notes This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load

(4) At 100% Of it	ili loau.				
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Three Phase Induction Motor - Squirrel Cage



Customer	
Customer	

Thermal protection

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ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

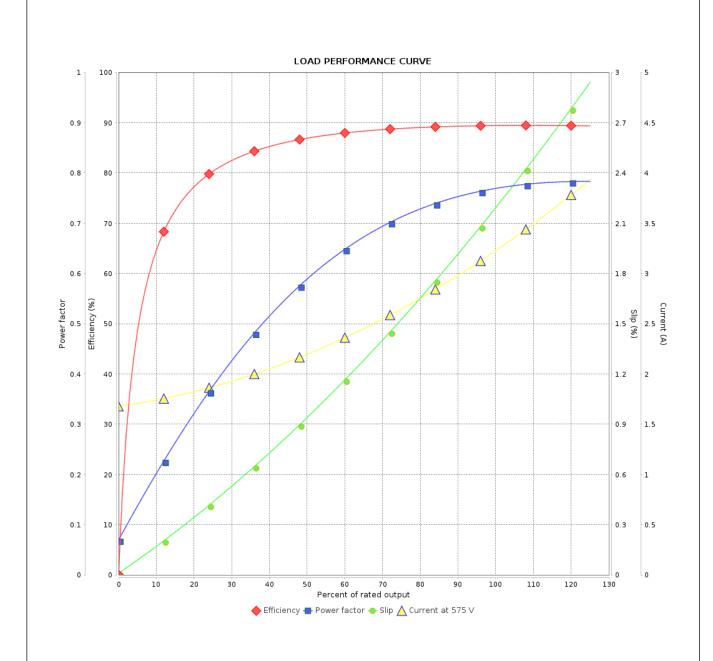


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14371273



Performance	:	575 V 60 Hz 4P					
Rated current	:	3.21 A	Moment of inertia (J)		: 0.0117 kgm²		
LRC		8.0	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	:	1.24 kgfm	Insulation class		:F ` ´		
Locked rotor torque	e :	250 %	Service factor		: 1.15		
Breakdown torque	:	320 % Temperature rise		ıre rise	: 80 K		
Rated speed	:	1760 rpm	Design		: B		
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